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 tcatcccaac gtcacgccc tccacgagtc catcagggat ggtgggaaaa tatatcttgt 240  
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<210> 8  
 <211> 151  
 <212> PRT  
 <213> Oryza sativa

<400> 8  
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 Lys Glu Ile Ala Val Glu Arg Leu Ser Ser Lys Leu Arg Glu Ser Leu  
 35 40 45  
 Leu Ser Glu Val Asp Ile Leu Arg Arg Ile Arg His Pro Asn Val Ile  
 50 55 60  
 Ala Leu His Glu Ser Ile Arg Asp Gly Gly Lys Ile Tyr Leu Val Leu  
 65 70 75 80  
 Glu Tyr Cys Arg Gly Gly Asp Leu His Ser Tyr Leu Gln Gln His Lys  
 85 90 95  
 Arg Val Ser Glu Thr Val Ala Lys His Phe Ile Gln Gln Leu Ala Ser  
 100 105 110  
 Gly Leu Gln Met Leu Arg Glu Asn Asn Val Val His Arg Asp Leu Lys  
 115 120 125  
 Thr Thr Glu Ile Leu Leu Ile Ala Asn Asn Glu Asn Leu Pro Leu Lys  
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 Ile Ala Asp Phe Gly Phe Ala  
 145 150

<210> 9  
 <211> 1848  
 <212> DNA  
 <213> Glycine max

<400> 9  
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<210> 10
<211> 422
<212> PRT
<213> Glycine max

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Tyr Glu Leu Gly Arg Val Leu Gly His Gly Ser Phe Ala Lys Val Tyr
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His Ala Arg Asn Leu Lys Thr Gly Gln His Val Ala Met Lys Val Val
      35              40              45

Gly Lys Glu Lys Val Ile Lys Val Gly Met Met Glu Gln Val Lys Arg
      50              55              60

Glu Ile Ser Val Met Lys Met Val Lys His Pro Asn Ile Val Glu Leu
      65              70              75              80

His Glu Val Met Ala Ser Lys Ser Lys Ile Tyr Ile Ser Ile Glu Leu
      85              90              95

Val Arg Gly Gly Glu Leu Phe Asn Lys Val Ser Lys Gly Arg Leu Lys
      100             105             110

Glu Asp Leu Ala Arg Leu Tyr Phe Gln Gln Leu Ile Ser Ala Val Asp
      115             120             125

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Phe	Cys	His	Ser	Arg	Gly	Val	Tyr	His	Arg	Asp	Leu	Lys	Pro	Glu	Asn	
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Thr	Ala	Phe	Ser	Asp	His	Leu	Lys	Glu	Asp	Gly	Leu	Leu	His	Thr	Thr	
				165					170					175		
Cys	Gly	Thr	Pro	Ala	Tyr	Val	Ser	Pro	Glu	Val	Ile	Ala	Lys	Lys	Gly	
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Tyr	Asp	Gly	Ala	Lys	Ala	Asp	Ile	Trp	Ser	Cys	Gly	Val	Ile	Leu	Tyr	
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Val	Leu	Leu	Ala	Gly	Phe	Leu	Pro	Phe	Gln	Asp	Asp	Asn	Leu	Val	Ala	
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Met	Tyr	Lys	Lys	Ile	His	Arg	Gly	Asp	Phe	Lys	Cys	Pro	Pro	Trp	Phe	
225					230					235					240	
Ser	Leu	Asp	Ala	Arg	Lys	Leu	Val	Thr	Lys	Leu	Leu	Asp	Pro	Asn	Pro	
				245					250					255		
Asn	Thr	Arg	Ile	Ser	Ile	Ser	Lys	Val	Met	Glu	Ser	Ser	Trp	Phe	Lys	
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Lys	Gln	Val	Pro	Arg	Lys	Val	Glu	Glu	Val	Val	Glu	Lys	Val	Asp	Leu	
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Glu	Glu	Lys	Ile	Glu	Asn	Gln	Glu	Thr	Met	Asn	Ala	Phe	His	Ile	Ile	
	290					295					300					
Ser	Leu	Ser	Glu	Gly	Phe	Asn	Leu	Ser	Pro	Leu	Phe	Glu	Glu	Lys	Arg	
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Lys	Glu	Glu	Met	Arg	Phe	Ala	Thr	Ala	Gly	Thr	Pro	Ser	Ser	Val	Ile	
				325					330					335		
Ser	Arg	Leu	Glu	Glu	Val	Ala	Lys	Ala	Gly	Lys	Phe	Asp	Val	Lys	Ser	
			340					345					350			
Ser	Glu	Thr	Lys	Val	Arg	Leu	Gln	Gly	Gln	Glu	Arg	Gly	Arg	Lys	Gly	
		355					360					365				
Lys	Leu	Ala	Ile	Ala	Ala	Asp	Ile	Tyr	Ala	Val	Thr	Pro	Ser	Phe	Met	
		370				375					380					
Val	Val	Glu	Val	Lys	Lys	Asp	Asn	Gly	Asp	Thr	Leu	Glu	Tyr	Asn	Gln	
385					390					395					400	
Phe	Cys	Ser	Lys	Gln	Leu	Arg	Pro	Ala	Leu	Lys	Asp	Ile	Phe	Trp	Asn	
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Ser	Ala	Pro	Ala	Ser	Ala											
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<210> 11  
 <211> 2123

<212> DNA  
<213> Glycine max

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<210> 12  
<211> 514  
<212> PRT  
<213> Glycine max

<400> 12  
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Pro Asn Tyr Lys Leu Gly Lys Thr Leu Gly Ile Gly Ser Phe Gly Lys  
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Val Lys Ile Ala Glu His Val Leu Thr Gly His Lys Val Ala Ile Lys  
35 40 45  
Ile Leu Asn Arg Arg Lys Ile Lys Asn Met Glu Met Glu Glu Lys Val  
50 55 60  
Arg Arg Glu Ile Lys Ile Leu Arg Leu Phe Met His Pro His Ile Ile

65	70	75	80
Arg Leu Tyr Glu Val Ile Glu Thr Pro Thr Asp Ile Tyr Val Val Met	85	90	95
Glu Tyr Val Lys Ser Gly Glu Leu Phe Asp Tyr Ile Val Glu Lys Gly	100	105	110
Arg Leu Gln Glu Asp Glu Ala Arg Asn Phe Phe Gln Gln Ile Ile Ser	115	120	125
Gly Val Glu Tyr Cys His Arg Asn Met Val Val His Arg Asp Leu Lys	130	135	140
Pro Glu Asn Leu Leu Leu Asp Ser Lys Cys Asn Val Lys Ile Ala Asp	145	150	155
Phe Gly Leu Ser Asn Ile Met Arg Asp Gly His Phe Leu Lys Thr Ser	165	170	175
Cys Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Lys Leu	180	185	190
Tyr Ala Gly Pro Glu Val Asp Val Trp Ser Cys Gly Val Ile Leu Tyr	195	200	205
Ala Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Glu Asn Ile Pro Asn	210	215	220
Leu Phe Lys Lys Ile Lys Gly Gly Ile Tyr Thr Leu Pro Ser His Leu	225	230	235
Ser Pro Gly Ala Arg Asp Leu Ile Pro Gly Met Leu Val Val Asp Pro	245	250	255
Met Arg Arg Met Thr Ile Pro Glu Ile Arg Gln His Pro Trp Phe Gln	260	265	270
Ala Arg Leu Pro Arg Tyr Leu Ala Val Pro Pro Pro Asp Thr Met Gln	275	280	285
Gln Ala Lys Lys Ile Asp Glu Glu Ile Leu Gln Glu Val Val Lys Met	290	295	300
Gly Phe Asp Arg Asn Gln Leu Val Glu Ser Leu Gly Asn Arg Ile Gln	305	310	315
Asn Glu Gly Thr Val Ala Tyr Tyr Leu Leu Leu Asp Asn Arg Phe Arg	325	330	335
Val Ser Ser Gly Tyr Leu Gly Ala Glu Phe Gln Glu Thr Met Asp Ser	340	345	350
Gly Phe Asn Gln Met His Ser Ser Glu Leu Ala Ser Ser Val Val Gly	355	360	365
Asn Arg Phe Pro Gly Tyr Met Glu Tyr Pro Gly Val Gly Ser Arg Gln	370	375	380
Gln Phe Pro Val Glu Arg Lys Trp Ala Leu Gly Leu Gln Ser Arg Ala			

385		390		395		400
His Pro Arg Glu Ile Met Thr Glu Val Leu Lys Ala Leu Gln Glu Leu						
		405		410		415
Asn Val Cys Trp Lys Lys Ile Gly His Tyr Asn Met Lys Cys Arg Trp						
		420		425		430
Val Ala Gly Ile Pro Gly His His Glu Gly Met Val Asn Asn Asn Val						
		435		440		445
His Ser Asn His Tyr Phe Gly Asp Asp Ser Asn Ile Ile Glu Asn Asp						
		450		455		460
Ala Val Ser Thr Ser Asn Val Val Lys Phe Glu Val Gln Leu Tyr Lys						
		465		470		475
Thr Arg Glu Glu Lys Tyr Leu Leu Asp Leu Gln Arg Val Gln Gly Pro						
		485		490		495
Gln Phe Leu Phe Leu Asp Leu Cys Ala Ala Phe Leu Ala Gln Leu Arg						
		500		505		510

Val Leu

<210> 13  
 <211> 2040  
 <212> DNA  
 <213> Glycine max

<400> 13

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<210> 14  
 <211> 438  
 <212> PRT  
 <213> Glycine max

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 Ala Lys Val Tyr His Ala Arg His Leu Lys Thr Gly Lys Ser Val Ala  
 35 40 45  
 Met Lys Val Val Gly Lys Glu Lys Val Val Lys Val Gly Met Met Glu  
 50 55 60  
 Gln Ile Lys Arg Glu Ile Ser Ala Met Asn Met Val Lys His Pro Asn  
 65 70 75 80  
 Ile Val Gln Leu His Glu Val Met Ala Ser Lys Ser Lys Ile Tyr Ile  
 85 90 95  
 Ala Met Glu Leu Val Arg Gly Gly Glu Leu Phe Asn Lys Ile Ala Arg  
 100 105 110  
 Gly Arg Leu Arg Glu Glu Met Ala Arg Leu Tyr Phe Gln Gln Leu Ile  
 115 120 125  
 Ser Ala Val Asp Phe Cys His Ser Arg Gly Val Tyr His Arg Asp Leu  
 130 135 140  
 Lys Pro Glu Asn Leu Leu Leu Asp Asp Asp Gly Asn Leu Lys Val Thr  
 145 150 155 160  
 Asp Phe Gly Leu Ser Thr Phe Ser Glu His Leu Arg His Asp Gly Leu  
 165 170 175  
 Leu His Thr Thr Cys Gly Thr Pro Ala Tyr Val Ala Pro Glu Val Ile  
 180 185 190  
 Gly Lys Arg Gly Tyr Asp Gly Ala Lys Ala Asp Ile Trp Ser Cys Gly  
 195 200 205  
 Val Ile Leu Tyr Val Leu Leu Ala Gly Phe Leu Pro Phe Gln Asp Asp  
 210 215 220  
 Asn Leu Val Ala Leu Tyr Lys Lys Ile Tyr Arg Gly Asp Phe Lys Cys  
 225 230 235 240  
 Pro Pro Trp Phe Ser Ser Glu Ala Arg Arg Leu Ile Thr Lys Leu Leu  
 245 250 255



Asp Pro Asn Pro Asn Thr Arg Ile Thr Ile Ser Lys Ile Met Asp Ser  
 260 265 270  
 Ser Trp Phe Lys Lys Pro Val Pro Lys Asn Leu Met Gly Lys Lys Arg  
 275 280 285  
 Glu Glu Leu Asp Leu Glu Glu Lys Ile Lys Gln His Glu Gln Glu Val  
 290 295 300  
 Ser Thr Thr Met Asn Ala Phe His Ile Ile Ser Leu Ser Glu Gly Phe  
 305 310 315 320  
 Asp Leu Ser Pro Leu Phe Glu Glu Lys Lys Arg Glu Glu Lys Glu Leu  
 325 330 335  
 Arg Phe Ala Thr Thr Arg Pro Ala Ser Ser Val Ile Ser Arg Leu Glu  
 340 345 350  
 Asp Leu Ala Lys Ala Val Lys Phe Asp Val Lys Lys Ser Glu Thr Lys  
 355 360 365  
 Val Arg Leu Gln Gly Gln Glu Lys Gly Arg Lys Gly Lys Leu Ala Ile  
 370 375 380  
 Ala Ala Asp Leu Tyr Ala Val Thr Pro Ser Phe Leu Val Val Glu Val  
 385 390 395 400  
 Lys Lys Asp Asn Gly Asp Thr Leu Glu Tyr Asn Gln Phe Cys Ser Lys  
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 Glu Leu Arg Pro Ala Leu Lys Asp Ile Val Trp Arg Thr Ser Pro Ala  
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 Glu Asn Pro Thr Leu Ala  
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<210> 15  
 <211> 2543  
 <212> DNA  
 <213> Glycine max

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 ctccgaaatt ataagttggg aaaaacactc ggcatgtggg cctttggcaa ggtgaaaatt 180  
 gctgagcatg tacggactgg tcataaagtt gctataaaga tccttaaccg ccacaagatt 240  
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 catcatcaca ttataagact atatgaggtt gtagaaaccc caacagacat atatgttggt 360  
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<211> 515
<212> PRT
<213> Glycine max

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Lys Val Lys Ile Ala Glu His Val Arg Thr Gly His Lys Val Ala Ile
      35              40              45

Lys Ile Leu Asn Arg His Lys Ile Lys Asn Met Glu Met Glu Glu Lys
      50              55              60

Val Arg Arg Glu Ile Lys Ile Leu Arg Leu Phe Met His His His Ile
      65              70              75              80

Ile Arg Leu Tyr Glu Val Val Glu Thr Pro Thr Asp Ile Tyr Val Val
      85              90              95

Met Glu Tyr Val Lys Ser Gly Glu Leu Phe Asp Tyr Ile Val Glu Lys
      100             105             110

Gly Arg Leu Gln Glu Asp Glu Ala Arg His Phe Phe Gln Gln Ile Ile
      115             120             125

Ser Gly Val Glu Tyr Cys His Arg Asn Met Val Val His Arg Asp Leu
      130             135             140

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Lys Pro Glu Asn Leu Leu Leu Asp Ser Lys Phe Asn Ile Lys Ile Ala  
 145 150 155 160  
 Asp Phe Gly Leu Ser Asn Ile Met Arg Asp Gly His Phe Leu Lys Thr  
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 Ser Cys Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Lys  
 180 185 190  
 Leu Tyr Ala Gly Pro Glu Val Asp Val Trp Ser Cys Gly Val Ile Leu  
 195 200 205  
 Tyr Ala Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Glu Asn Ile Pro  
 210 215 220  
 Asn Leu Phe Lys Lys Ile Lys Gly Gly Ile Tyr Thr Leu Pro Ser His  
 225 230 235 240  
 Leu Ser Pro Gly Ala Arg Asp Leu Ile Pro Arg Met Leu Val Val Asp  
 245 250 255  
 Pro Met Lys Arg Met Thr Ile Pro Glu Ile Arg Gln His Pro Trp Phe  
 260 265 270  
 Gln Val His Leu Pro Arg Tyr Leu Ala Val Pro Pro Pro Asp Thr Leu  
 275 280 285  
 Gln Gln Ala Lys Lys Ile Asp Glu Glu Ile Leu Gln Glu Val Val Asn  
 290 295 300  
 Met Gly Phe Asp Arg Asn Gln Leu Val Glu Ser Leu Ser Asn Arg Ile  
 305 310 315 320  
 Gln Asn Glu Gly Thr Val Thr Tyr Tyr Leu Leu Leu Asp Asn Arg Phe  
 325 330 335  
 Arg Val Ser Ser Gly Tyr Leu Gly Ala Glu Phe Gln Glu Thr Met Asp  
 340 345 350  
 Ser Gly Phe Asn Arg Met His Ser Gly Glu Val Ala Ser Pro Val Val  
 355 360 365  
 Gly His His Ser Thr Gly Tyr Met Asp Tyr Gln Gly Val Gly Met Arg  
 370 375 380  
 Gln Gln Phe Pro Val Glu Arg Lys Trp Ala Leu Gly Leu Gln Ser Arg  
 385 390 395 400  
 Ala Gln Pro Arg Glu Ile Met Thr Glu Val Leu Lys Ala Leu Gln Glu  
 405 410 415  
 Leu Asn Val Cys Trp Lys Lys Ile Gly His Tyr Asn Met Lys Cys Arg  
 420 425 430  
 Trp Val Ala Gly Thr Ala Gly His His Glu Gly Met Ile Asn Asn Ser  
 435 440 445  
 Leu His Ser Asn His Tyr Phe Gly Asn Asp Ser Gly Ile Ile Glu Asn  
 450 455 460

Glu Ala Val Ser Lys Ser Asn Val Val Lys Phe Glu Val Gln Leu Tyr  
465 470 475 480

Lys Thr Arg Glu Glu Lys Tyr Leu Leu Asp Leu Gln Arg Val Gln Gly  
485 490 495

Pro Gln Phe Leu Phe Leu Asp Leu Cys Ala Ala Phe Leu Ser Gln Leu  
500 505 510

Arg Val Leu  
515

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<211> 1869  
<212> DNA  
<213> Glycine max

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tgctcgggtc cactgcagaa ttctcagttta ttcttatcta gctcaattct gggtgtgggt 180  
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accattgggtg aaggtacatt tgcaaagggtg aaatttgcaa ggaactctga gacaggagag 360  
cccgtggctc ttaaaattct tgacaaggag aagggtgctaa agcacaagat ggctgagcag 420  
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gaggtcatgg gaagcaagac caaaatatat attgttttgg agtttgtaac tgggggggaa 540  
ctctttgaca aaattgtaaa ccatggaagg atgagtgaat atgaagcacg tagatatttc 600  
cagcagctta taaatgctgt tgattattgc catagcaggg gtgtctacca cagagacctg 660  
aagccagaaa atttgctatt agatacttat gggaacctta aagtttctga ttttggtttg 720  
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aaaaaaaaa 1869

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<211> 441  
<212> PRT  
<213> Glycine max

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Arg Thr Ile Gly Glu Gly Thr Phe Ala Lys Val Lys Phe Ala Arg Asn  
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 Ser Glu Thr Gly Glu Pro Val Ala Leu Lys Ile Leu Asp Lys Glu Lys  
 35 40 45  
 Val Leu Lys His Lys Met Ala Glu Gln Ile Arg Arg Glu Val Ala Thr  
 50 55 60  
 Met Lys Leu Ile Lys His Pro Asn Val Val Arg Leu Tyr Glu Val Met  
 65 70 75 80  
 Gly Ser Lys Thr Lys Ile Tyr Ile Val Leu Glu Phe Val Thr Gly Gly  
 85 90 95  
 Glu Leu Phe Asp Lys Ile Val Asn His Gly Arg Met Ser Glu Asn Glu  
 100 105 110  
 Ala Arg Arg Tyr Phe Gln Gln Leu Ile Asn Ala Val Asp Tyr Cys His  
 115 120 125  
 Ser Arg Gly Val Tyr His Arg Asp Leu Lys Pro Glu Asn Leu Leu Leu  
 130 135 140  
 Asp Thr Tyr Gly Asn Leu Lys Val Ser Asp Phe Gly Leu Ser Ala Leu  
 145 150 155 160  
 Ser Gln Gln Val Arg Asp Asp Gly Leu Leu His Thr Thr Cys Gly Thr  
 165 170 175  
 Pro Asn Tyr Val Ala Pro Glu Val Leu Asn Asp Arg Gly Tyr Asp Gly  
 180 185 190  
 Ala Thr Ala Asp Leu Trp Ser Cys Gly Val Ile Leu Phe Val Leu Val  
 195 200 205  
 Ala Gly Tyr Leu Pro Phe Asp Asp Pro Asn Leu Met Asn Leu Tyr Lys  
 210 215 220  
 Lys Ile Ser Ala Ala Glu Phe Thr Cys Pro Pro Trp Leu Ser Phe Thr  
 225 230 235 240  
 Ala Arg Lys Leu Ile Thr Arg Ile Leu Asp Pro Asp Pro Thr Thr Arg  
 245 250 255  
 Ile Thr Ile Pro Glu Ile Leu Asp Asp Glu Trp Phe Lys Lys Glu Tyr  
 260 265 270  
 Lys Pro Pro Ile Phe Glu Glu Asn Gly Glu Ile Asn Leu Asp Asp Val  
 275 280 285  
 Glu Ala Val Phe Lys Asp Ser Glu Glu His His Val Thr Glu Lys Lys  
 290 295 300  
 Glu Glu Gln Pro Thr Ala Met Asn Ala Phe Glu Leu Ile Ser Met Ser  
 305 310 315 320  
 Lys Gly Leu Asn Leu Glu Asn Leu Phe Asp Thr Glu Gln Gly Phe Lys  
 325 330 335

Arg Glu Thr Arg Phe Thr Ser Lys Ser Pro Ala Asp Glu Ile Ile Asn  
340 345 350

Lys Ile Glu Glu Ala Ala Lys Pro Leu Gly Phe Asp Val Gln Lys Lys  
355 360 365

Asn Tyr Lys Met Arg Leu Ala Asn Val Lys Ala Gly Arg Lys Gly Asn  
370 375 380

Leu Asn Val Ala Thr Glu Ile Phe Gln Val Ala Pro Ser Leu His Met  
385 390 395 400

Val Glu Val Arg Lys Ala Lys Gly Asp Thr Leu Glu Phe His Lys Phe  
405 410 415

Tyr Lys Lys Leu Ser Thr Ser Leu Asp Asp Val Val Trp Lys Thr Glu  
420 425 430

Asp Asp Met Gln Met Arg Glu Thr Lys  
435 440

<210> 19  
<211> 817  
<212> DNA  
<213> Triticum aestivum

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gaacattagg tataggcaca tttggaaaag tgaggattgc agagcataag catacagggc 180  
ataaagtgtc tataaagatt ctgaaccgtc gtcaaagtga aactatggaa atggaggaga 240  
aagcaaagag agagatcaag atattgaggt tgttcatcca ccctcatatc atccggcttt 300  
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<211> 244  
<212> PRT  
<213> Triticum aestivum

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Tyr Asn Val Gly Arg Thr Leu Gly Ile Gly Thr Phe Gly Lys Val Arg  
20 25 30

Ile Ala Glu His Lys His Thr Gly His Lys Val Ala Ile Lys Ile Leu  
35 40 45

Asn Arg Arg Gln Met Arg Thr Met Glu Met Glu Glu Lys Ala Lys Arg  
50 55 60

Glu	Ile	Lys	Ile	Leu	Arg	Leu	Phe	Ile	His	Pro	His	Ile	Ile	Arg	Leu	65	70	75	80
Tyr	Glu	Val	Ile	Tyr	Thr	Pro	Thr	Asp	Ile	Phe	Val	Val	Met	Glu	Tyr	85	90	95	
Cys	Lys	Tyr	Gly	Glu	Leu	Phe	Asp	Cys	Ile	Val	Glu	Lys	Gly	Arg	Leu	100	105	110	
Gln	Glu	Asp	Glu	Ala	Arg	Arg	Ile	Phe	Gln	Gln	Ile	Ile	Ser	Gly	Val	115	120	125	
Glu	Tyr	Cys	His	Arg	Asn	Met	Val	Ala	His	Arg	Asp	Leu	Lys	Pro	Glu	130	135	140	
Asn	Leu	Leu	Leu	Asp	Ser	Lys	Tyr	Asn	Val	Lys	Leu	Ala	Asp	Phe	Gly	145	150	155	160
Leu	Ser	Asn	Val	Met	His	Asp	Gly	His	Phe	Leu	Lys	Thr	Ser	Cys	Gly	165	170	175	
Ser	Pro	Asn	Tyr	Ala	Ala	Pro	Glu	Val	Ile	Ser	Gly	Lys	Leu	Tyr	Ala	180	185	190	
Gly	Pro	Glu	Val	Asp	Val	Trp	Ser	Cys	Gly	Val	Ile	Leu	Tyr	Ala	Leu	195	200	205	
Leu	Cys	Gly	Thr	Leu	Pro	Phe	Asp	Asp	Asp	Asn	Ile	Pro	Lys	Leu	Phe	210	215	220	
Lys	Lys	Ile	Lys	Gly	Gly	Ile	Tyr	Ile	Leu	Pro	Ser	His	Leu	Ser	Ala	225	230	235	240

Pro Ala Arg Asp

<210> 21  
 <211> 2006  
 <212> DNA  
 <213> Triticum aestivum

<400> 21

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aaagagagat	caagatatta	agattattca	tgcacccaca	tatcatccgc	ctttatgaag	300
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<210> 22
<211> 523
<212> PRT
<213> Triticum aestivum

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Ala Arg Trp Lys Met Glu Thr Gly Gly Lys Asp Gly Asn Pro Leu Lys
      20              25              30

Asn Tyr Arg Ile Gly Lys Thr Leu Gly Ile Gly Ser Phe Gly Lys Val
      35              40              45

Lys Ile Ala Glu His Ile Lys Thr Gly His Lys Val Ala Val Lys Ile
      50              55              60

Leu Asn Arg Arg Lys Ile Lys Asn Met Glu Met Glu Glu Lys Val Lys
      65              70              75              80

Arg Glu Ile Lys Ile Leu Arg Leu Phe Met His Pro His Ile Ile Arg
      85              90              95

Leu Tyr Glu Val Ile Glu Ala Pro Ala Asp Ile Tyr Val Val Met Glu
      100             105             110

Tyr Val Lys Ser Gly Glu Leu Phe Asp Tyr Ile Val Glu Lys Gly Arg
      115             120             125

Leu Gln Glu Glu Glu Ala Arg Arg Phe Phe Gln Gln Ile Ile Ser Gly
      130             135             140

Val Gln Tyr Cys His Arg Asn Met Val Val His Arg Asp Leu Lys Pro
      145             150             155             160

Glu Asn Leu Leu Leu Asp Asn Asn Cys Asp Val Lys Ile Ala Asp Phe
      165             170             175

Gly Leu Ser Asn Val Met Arg Asp Gly His Phe Leu Lys Thr Ser Cys
      180             185             190

Gly Ser Pro Asn Tyr Ala Ala Pro Glu Val Ile Ser Gly Lys Leu Tyr

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195	200	205
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Leu Leu Cys Gly Thr Leu Pro Phe Asp Asp Glu Asn Ile Pro Asn Leu 225 230 235 240		
Phe Lys Lys Ile Lys Gly Gly Ile Tyr Thr Leu Pro Ser His Leu Ser 245 250 255		
Gly Pro Ala Arg Asp Leu Ile Pro Arg Met Leu Val Val Asp Pro Met 260 265 270		
Lys Arg Ile Thr Ile Arg Glu Ile Arg Glu His Pro Trp Phe Glu Ala 275 280 285		
Gln Leu Pro Arg Tyr Leu Ala Val Pro Pro Pro Asp Thr Ala Gln Gln 290 295 300		
Val Lys Lys Ile Asp Glu Glu Ser Leu Val Lys Val Ile Ser Leu Gly 305 310 315 320		
Phe Asp Lys Asn Leu Leu Val Glu Ser Ile His Asn Arg Leu Gln Asn 325 330 335		
Glu Ala Thr Val Ala Tyr Tyr Leu Phe Leu Asp Asn Lys Ser Arg Thr 340 345 350		
Thr Thr Gly Tyr Leu Gly Ala Gly Tyr Gln Glu Ala Met Glu Ser Ser 355 360 365		
Phe Ser Pro Ile Thr Pro Ser Glu Thr Gln Ser Pro Ala His Gly Asn 370 375 380		
Arg Gln Gln Pro Tyr Met Glu Ser Pro Val Gly Leu Arg Pro His Phe 385 390 395 400		
Pro Ala Asp Arg Lys Trp Ala Leu Gly Leu Gln Ser Arg Ala His Pro 405 410 415		
Arg Glu Val Met Thr Glu Val Leu Lys Ala Leu Gln Glu Leu Asn Val 420 425 430		
Tyr Trp Lys Lys Ile Gly His Tyr Asn Met Lys Cys Arg Trp Ser Pro 435 440 445		
Pro Gly Phe Pro Gly Gln Glu Asn Met Asn His Thr Asn Tyr Asn Phe 450 455 460		
Ser Ala Glu Pro Ile Glu Thr Asp Asp Leu Gly Asp Lys Leu Asn Leu 465 470 475 480		
Ile Lys Phe Glu Leu Gln Leu Tyr Lys Thr Arg Asp Glu Lys Tyr Leu 485 490 495		
Leu Asp Leu Gln Arg Ala Ser Gly Pro His Leu Leu Phe Leu Asp Leu 500 505 510		
Cys Ala Ala Phe Leu Ala Gln Leu Arg Val Phe		



515

520

<210> 23  
 <211> 512  
 <212> DNA  
 <213> Zea mays

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 ggtgggcaag tacgaggtgg gacgcacccat cggggaaggc accttcgcca aggtcaagtt 180  
 cgcgcagaac accgagaccg gggagagcgt cgccatgaag gtgctcgacc gctcctccat 240  
 cctcaagaac aagatggccg aacagattaa gagagaaata tccataatga agcttgtcag 300  
 gcatcccaat gtcgttaggc tacacgaggt tttggcaagc cggaagaaga tatttataat 360  
 tctggagttc atcactggcg gcgagctatt cgataaaatt attcgatcatg ggagactcag 420  
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 gaaaggagtc taccatcgag acttaaagcc tg 512

<210> 24  
 <211> 132  
 <212> PRT  
 <213> Zea mays

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 Phe Ala Lys Val Lys Phe Ala Gln Asn Thr Glu Thr Gly Glu Ser Val  
 20 25 30  
 Ala Met Lys Val Leu Asp Arg Ser Ser Ile Leu Lys Asn Lys Met Ala  
 35 40 45  
 Glu Gln Ile Lys Arg Glu Ile Ser Ile Met Lys Leu Val Arg His Pro  
 50 55 60  
 Asn Val Val Arg Leu His Glu Val Leu Ala Ser Arg Lys Lys Ile Phe  
 65 70 75 80  
 Ile Ile Leu Glu Phe Ile Thr Gly Gly Glu Leu Phe Asp Lys Ile Ile  
 85 90 95  
 Arg His Gly Arg Leu Ser Glu Ala Asp Ala Arg Arg Tyr Phe Gln Gln  
 100 105 110  
 Leu Ile Asp Gly Val Asp Phe Cys His Lys Lys Gly Val Tyr His Arg  
 115 120 125  
 Asp Leu Lys Pro  
 130

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 <211> 552  
 <212> DNA  
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 <222> (385)  
 <223> n = A, C, G or T

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ttccactgca gaatttcagt ttattcttat ctagctcaat tctgggttg gggttatctc 180  
ttactggaag acagactttg aggtagactc cttataagtg cgcagaagtt caagtgtaga 240  
gaatgagtca gcctaagatt aaacgccgag ttggtaaata cgaggtgggg aggaccattg 300  
gtgaaggtag atttgcaaag gtgaaatttg caaggaactc tgagacagga gagccgtggc 360  
tcttaaaatt cttgacaagg agaangtgct aaagcacaag atggctgagc agatcaggag 420  
agaagtagct acaatgaaac taatcaagca tccaaatgtt gttcgattgt atgaagtcac 480  
gggaagcaag acaaatatat aatgttttgg agttgtactg ggggggaacc cttgcaaatt 540  
gtaaccatgg aa 552

<210> 26  
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<212> PRT  
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Lys Val Lys Phe Ala Arg Asn Ser Glu Thr Gly Glu Pro Trp Leu Leu  
20 25 30  
Lys Phe Leu Thr Arg Arg Xaa Val Leu Lys His Lys Met Ala Glu Gln  
35 40 45  
Ile Arg Arg Glu Val Ala Thr Met Lys Leu Ile Lys His Pro Asn Val  
50 55 60  
Val Arg Leu Tyr Glu Val Met Gly Ser Lys Thr Asn Ile  
65 70 75

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tggggattgg ttcgttcggg aaggtcaaga ttgccgagca tataaaaact ggtcacaang 180  
tggccgtcaa gatccttaac cgccggcaaa tcaaaaacat ggcgatggaa gagaangtgn 240

caagagagat caagatatta agattattca tgcacccaca tatcatccgc ctttatnaag 300  
 tgatagaggc accagntgat atttatgtgg ntatgnanta tgtnaaagtc cggtganttg 360  
 nttgattata ntgtttctaa ngctcntata t 391

<210> 28  
 <211> 85  
 <212> PRT  
 <213> Triticum aestivum

<220>  
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 <223> Xaa = ANY AMINO ACID

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 Lys Val Lys Ile Ala Glu His Ile Lys Thr Gly His Xaa Val Ala Val  
 20 25 30  
 Lys Ile Leu Asn Arg Arg Gln Ile Lys Asn Met Ala Met Glu Glu Xaa  
 35 40 45  
 Val Xaa Arg Glu Ile Lys Ile Leu Arg Leu Phe Met His Pro His Ile  
 50 55 60  
 Ile Arg Leu Tyr Xaa Val Ile Glu Ala Pro Xaa Asp Ile Tyr Val Xaa  
 65 70 75 80

Met Xaa Tyr Val Lys  
85